APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

English Title Unknown, by Gregor Wentzel.
GERMAN, per, Zeitschrift fur Physik, No 58, 1929,
pp 348-367,
*AFCRL

Aug 69

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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On the Limitations to the Validity of the Cosine Law of Molecular Radiation, by Herbert Mayer, 22 pp.

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AEC 3337

Sci - Phys

Oct 58

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The Visible Afterglow of Active Nitrogen,
by G. Cario.
GERMAN, per, Zeit Physik, Vol 58, 1929,
pp 769-780.
NASA TT F-12,003

Sci-Phys
May 69 382,6661

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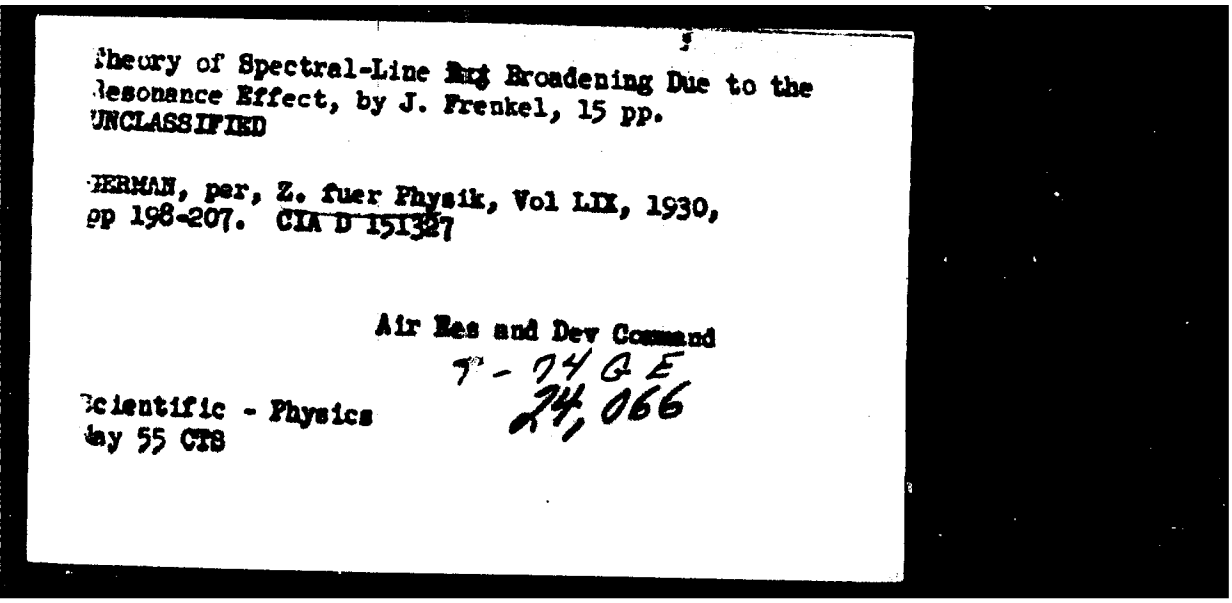

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esonance Effect, by J. Frenkel, 15 pp.
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pp 198-207. CIA D 151327

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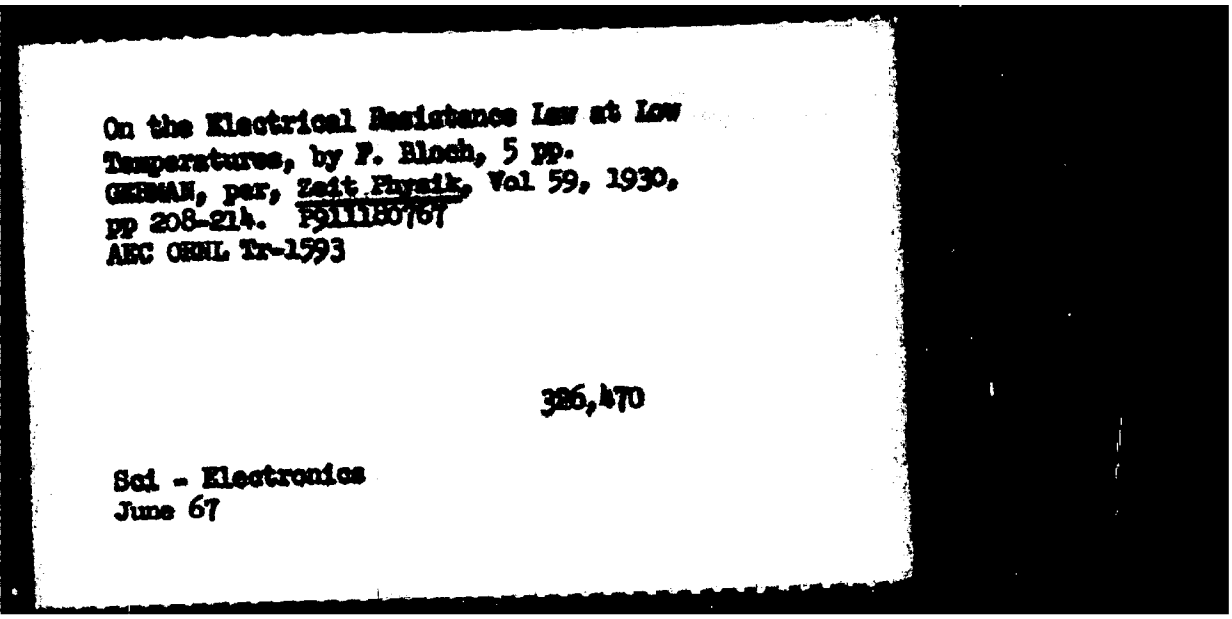

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AEC ORNL Tr-1593

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Sci - Electronics
June 67

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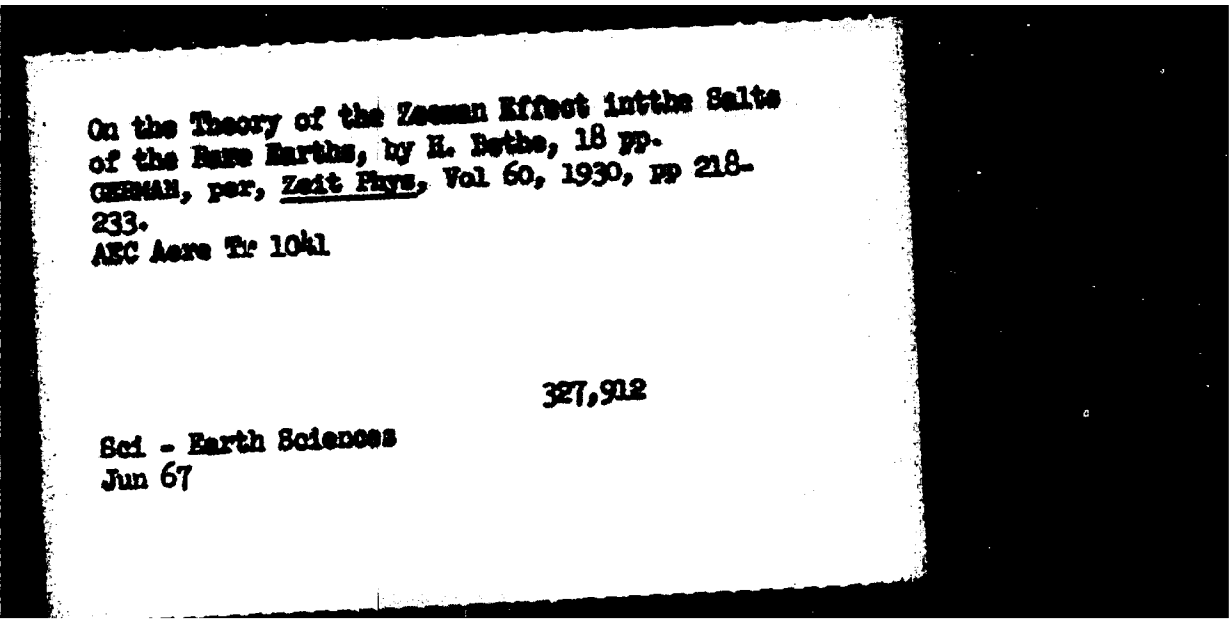

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Bloch, F.
ON THE THEORY OF FERROMAGNETISM (Zur Theorie des Ferromagnetismus). [1961] 15p. 4 refs.
Order from SLA $1.60 61-20965

Trans. of Zeitschrift f[ür] Physik (Germany) 1930, v. 61, no. 3/4, p. 206-219.

DESCRIPTORS: Ferromagnetism, Theory.

(Unannounced)

61-20965

I. Bloch, F.

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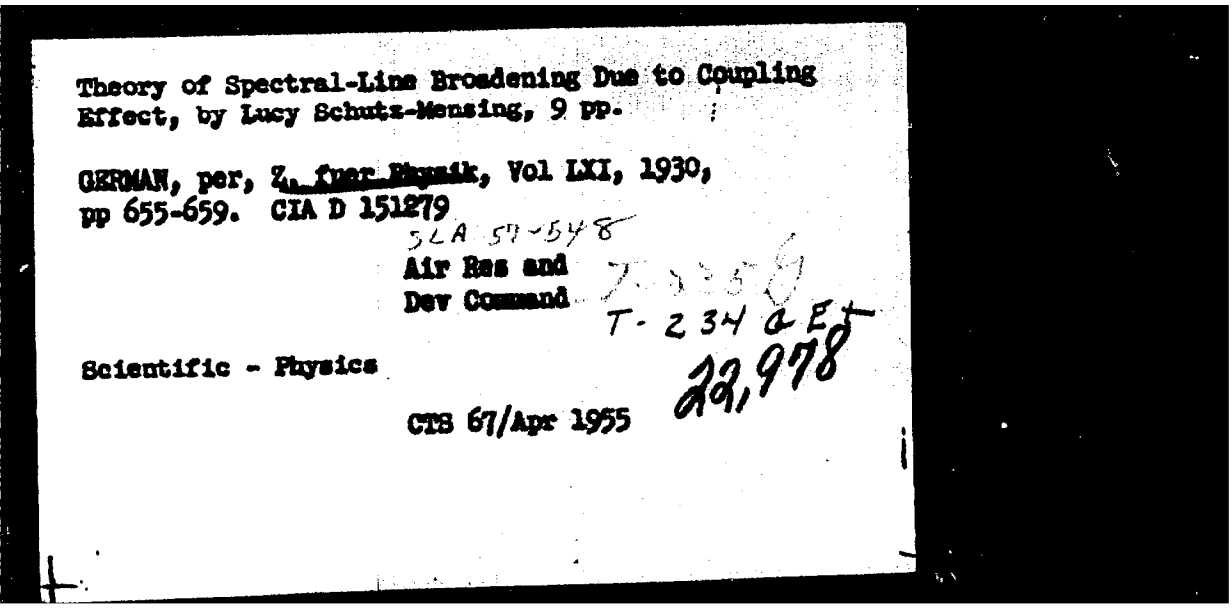

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SLA 57-548

Air Res and Dev Command

T-234 QE+

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Scientific - Physics

CTS 67/Apr 1955

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Astigmatism in Mirror Spectrometers,
by M. Czerny, A. F. Turner.
GERMAN, per, Zeit. fur Physik, Vol 61,
pp 792-797, 1930 9227908
AEC NP-Tr-1279-Draft

UCRL-tr 1182(L)
AEC SCL-T-329

Sci-Phys 291,933
Nov 65

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Bent and Transverse Oscillations of Piezo-Electrically Excited Quartz Plates, by H. Doerffler, 30 pp.

GERMAN, per, Z Physik, Vol LXIII, 7 Jul 1930, pp 30-53.

SLA 57-1566

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Calculation of the Natural Line-Width on the Basis of Dirac's Theory of Light, by V. Weisskopf, E. Wigner.

GERMAN, per, Z. Physik, Vol LXIII, No 1-2, 1930, pp 54-73.

ATS 292-GJ

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Diferences in the Intensity of X-Ray Reflection at the Two 111-Faces in Zinc Blende, by D. Coster,

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INSDOC T1762

Sci
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REFLECTION OF X-Rays on Absorbing Ideal Crystals, by J. A. Prins,
GOVERNMENT USE ONLY
GERMAN, per, Zeitschrift fur Physik, Vol
LXIII, 1930, pp 477-493. P:00181267
RSIC-659

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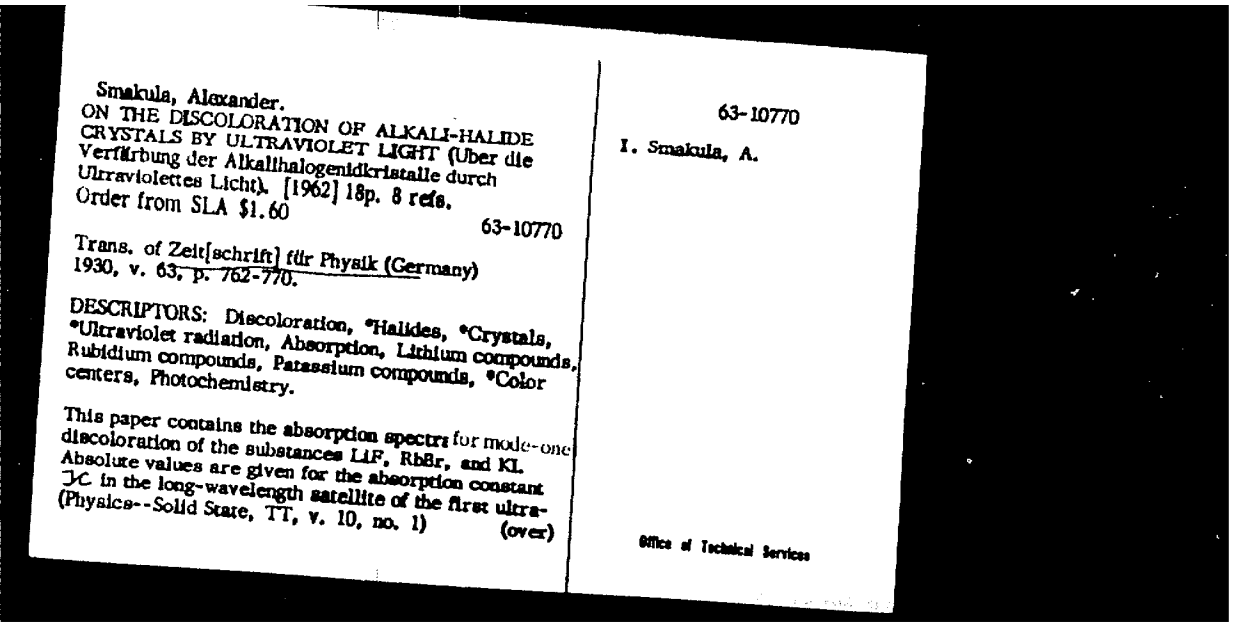

Smakula, Alexander.
ON THE DISCOLORATION OF ALKALI-HALIDE CRYSTALS BY ULTRAVIOLET LIGHT (Über die Verfärbung der Alkalihalogenidkristalle durch Ultraviolettes Licht). [1962] 18p. 8 refs.
Order from SLA $1.60
63-10770

Trans. of Zeit[schrift] für Physik (Germany) 1930, v. 63, p. 762-770.

DESCRIPTORS: Discoloration, *Halides, *Crystals, *Ultraviolet radiation, Absorption, Lithium compounds, Rubidium compounds, Potassium compounds, *Color centers, Photochemistry.

This paper contains the absorption spectra for mode-one discoloration of the substances LiF, RbBr, and KI. Absolute values are given for the absorption constant $\mathfrak{I}C$ in the long-wavelength satellite of the first ultra-
(Physics--Solid State, TT, v. 10, no. 1) (over)

63-10770

I. Smakula, A.

Office of Technical Services

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Filamentary, Visible Electron Beams,
by E. Bruche and W. Ende
GERMAN, per, Zeits, fur Phys., Vol. 64,
P. 186 (1930)
O.A./Trans.-1041

FEB 71

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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The Changes of Electrical Conductivity of pt. by Removing the Gas in a High Vacuum and Subsequent Charging with Hydrogen, by Klara Weil, 7 p.

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SLA 59-20402

Sci
Mar 60
Vol 2, No 12

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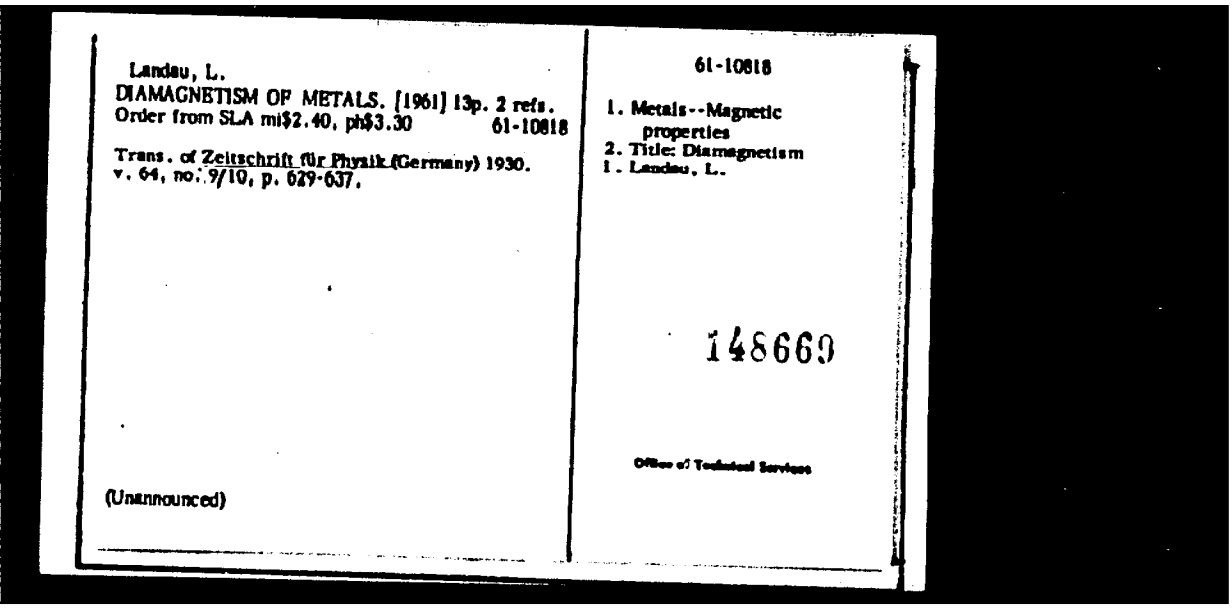

Landau, L.
DIAMAGNETISM OF METALS. [1961] 13p. 2 refs.
Order from SLA mi$2.40, ph$3.30 61-10818

Trans. of Zeitschrift für Physik (Germany) 1930.
v. 64, no. 9/10, p. 629-637.

(Unannounced)

61-10818

1. Metals--Magnetic properties
2. Title: Diamagnetism
I. Landau, L.

148669

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Intensity and Natural Width of the Blue Cesium Doublet. I., by Wilhelm Schutz.
GERMAN, per. Zeit. fuer Physik, Vol 64, 1930, pp 682-696. 9232895
ABC ORNL-tr-1180

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Jun 66

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Effect of Foreign Gases on Selective Reflection of the Mercury Resonance Line, by O. Schnettler.

GERMAN, per, Zeitschrift fuer Physik, Vol LXV, 1930, pp 55-65.

NZDIA

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Lloyd's Interference Experiment with X Rays, by M. Linnik, 6 pp.
GERMAN, per, Z Phys, Vol 65, 1930, pp 107-110.
AEC/NP-Tr-1844

Mill Ref 9091. 9F(CTO/640)

Sci/Phy
Mar 70

400,191

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Agency: Air Force
P. O. # ARO-0001 70-4

A-11603-D
4 May 70

Title: Über dem Grundterm der Zweielektrpnprob.
Author: Hylleraas, Egil A

Source: Z. fur Physik 65, 209-225

Language: German to English

Special Instructions: Please translated and type one copy

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Effects of Slit Widths upon Distribution
of Intensity in Spectral Lines, Pt I.,
by P. H. van Cittert.
GERMAN, per, Zeitschrift fuer Physik,
Vol 65, 1930, pp 547-63.
SLA TT-66-11078

332, 209

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Numerical Calculation of the 2S Terms of Ortho and Para Helium [Numerische Berechnung Der 2S-Terme Von Ortho- Und Par-Helium], by Egil A. [redacted] Hylleraas, Bjarne Undheim, 15 pp.

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CIA/FDD XX-1318
NO FOREIGN DISSEM

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218, 814

Jan 63
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A New Method for the Measurement of Very Low Vapor Pressures. The Vapor Pressures of Mercury and of Potassium. Part III, by H. Mayer. GERMAN, per, Zeitschrift fuer Physik, Vol 67, 1931, pp 240-263.
NTC 71-13784-07D
AEC-UCRL-Tr-10198
P911064968-V

352,157

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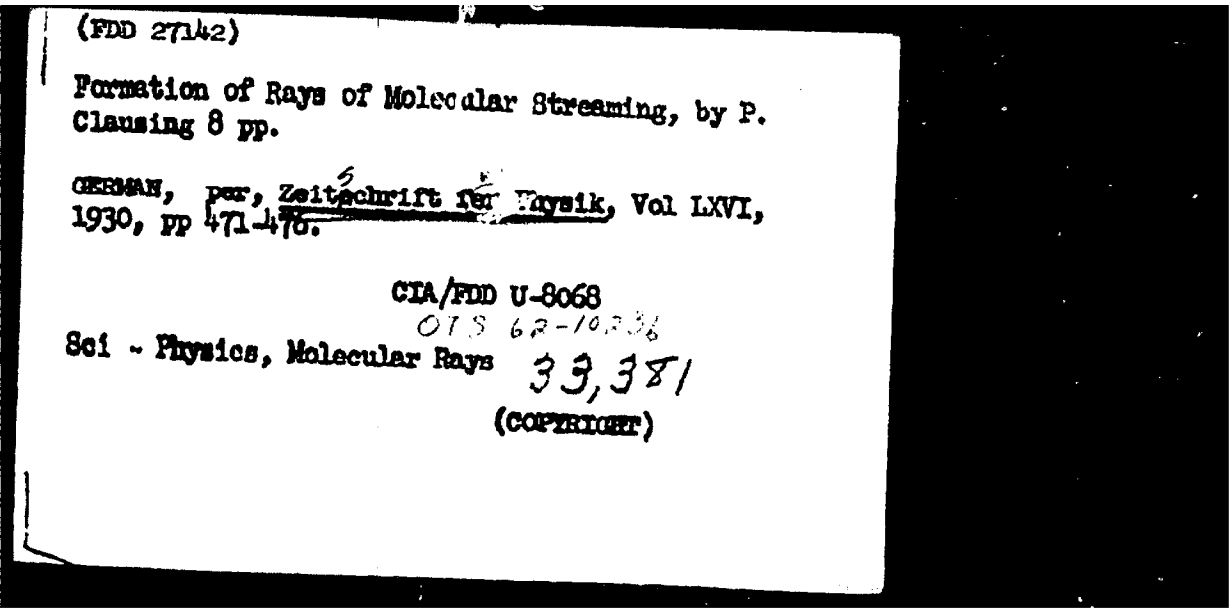

(FDD 27142)

Formation of Rays of Molecular Streaming, by P. Clausing 8 pp.

GERMAN, per, Zeitschrift für Physik, Vol LXVI, 1930, pp 471-476.

CIA/FDD U-8068
OTS 62-10236

Sci - Physics, Molecular Rays 39,381

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The ~~Cause~~ Cause of the High Permeability of Air-Cooled Permalloy, by K. Honda, 7 pp.

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SIA 57-3136

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SLA Tr 57-1461

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Sci - Electricity
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The Production of High Intensity X-Ray Spectra With the Help of Concave Crystals, by H. E. Johann (Bonn), 20 pp.

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AEC-Tr-5764

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Effect of Slit Width Upon Distribution of Intensity in Spectral Lines, Pt. II., by P. H. van Cittert.
GERMAN, per, Zeitschrift fuer Physik, Vol 69, 1931, pp 298-308.
SLA TT-66-11071

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Sci
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The Behavior of an Electron in a Homogeneous Electric Field According to the Relativistic Theory of Dirac, by Fritz Sauter. GERMAN, per, Zeit Physik, Vol 69, 1931, pp 742-764.
NASA TT F-12,030

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Determination of Equilibrium Between the Atoms and Molecules of an Alkali Vapor by a Molecular Beam Method,
By, L. C. Lewis.
GERMAN, per, Z. Physik, Vol CXIX, 1931, pp 786-809/
NASA TT F-9525

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perimental-technical Preparations for Atomic
disintegration by Means of High Electric Voltages,
Armo Brasch, Fritz Lange.

ZEAH, per, Zeitschrift fur Physik, Vol LXX,
31, pp 10-37.

X-532

Scientific - Nuclear Physics 16,410

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Quantum-Theoretic Contributions to the
Benzene Problem. I. The Electronic Configuration
of the Benzene and of Related Compounds, by Erich Huckel
GERMAN, per, Zeitschrift fur physik, Vol LXX, 1931,
pp 204-386
SLA TT 64-20132

Apr 67 323,072

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Energy Loss of Slow Electrons in Hydrogen,
by Hans Ramien, 28 pp.

GERMANY, Phys. Z. fur Physik, Vol LXX, 1931,
pp 353-374.

Amer Meteorol Soc [illegible]175

Sci - Phys
Mar 63

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Intensity and Natural Width of Spectral Kines, by
E. F. M. van der Held.
GERMAN, per, Zeit fur Physik, Vol 70, 1931, pp 508-
515. P500225368-V
Dept of Navy NIC Trans No 2621

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1142

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Oct 68 369,401

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Concerning the Collision Broadening of Spectral Lines and the Energy Exchange in Collisions, by A. Jablonski

GERMAN, per, Zeit fuer Physik, Vol LXX, 1931, pp 723-732.

Air Res and Dev Command
TT-110 TT-12 GU
(translation on tape)

Scientific - Physics
Jan 56 CTS

30,224

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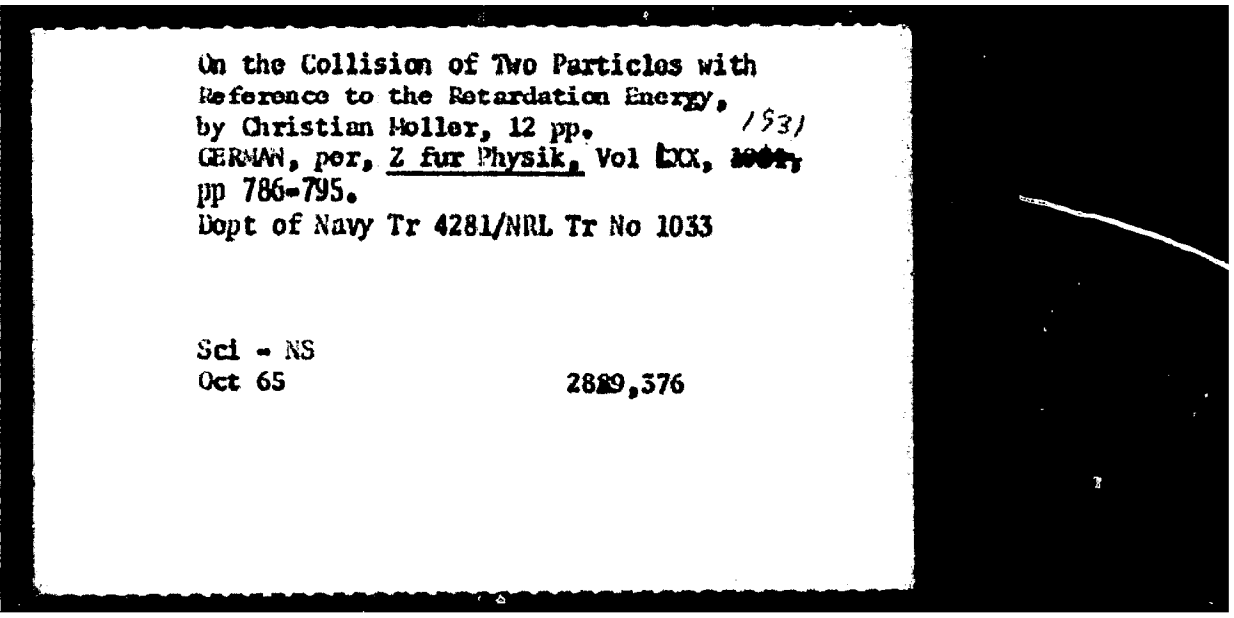

On the Collision of Two Particles with Reference to the Retardation Energy, by Christian Moller, 12 pp. 1931
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pp 786-795.
Dept of Navy Tr 4281/NRL Tr No 1033

Sci - NS
Oct 65 2889,376

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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

Kersten, Martin.
ON THE DEPENDENCE OF THE MAGNETIC PROPERTIES OF NICKEL ON ELASTIC STRESSES.
[64p] 32refs.
Order from SLA $6.60 TT-64-16948

Trans. of Z[eitschrift] f[ür] Physik (Germany) 1931, v. 71, p. 553-592.

(Physics--Magnetism, TT, v. 12, no. 5)

TT-64-16948

I. Kersten, M.

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The Raman Effect of Rock Salt, by E. Fermi, F. Rasetti

GERMAN, per. Zeitschrift fur Physik, Vol LXXI, 1931, pp 689-695.

S.L.A. Tr Pool

Also NRL-172

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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

Study of Anomalous Dispersion of Excited Gases, Pt. VII, Anomalous Dispersion of Electrically Excited Helium, by S. Levy, 13 p.

GERMAN, per, Zeit fur Physik, 1931, Vol LXXII, pp 578-586.

SLA 60-10316

Sci
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Vol XIII, No 3

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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

The Question of the Chemical Bond. Part I
by F. Hund.
GERMAN, per, Zeitschrift fuer Physik, Vol 73,
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NTC 69-10604-07D

Sci-Chem
July 69

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On the Theory of the Breakdown of Dielectrics, by L. Rosenkewitsch, C. Sinelnikow, 6 pp.

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SIA 57-2379

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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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A New Method for Measuring Conductivity Without Electrodes, by Werner Braunbek, 27 pp. UNCLASSIFIED

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AEC Tr 3118

59,287

Sci - Phys
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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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Change of Electrical Conductivity of Molten Bismuth Upon Solution of Bismuth Chloride, by Werner Braunbek, UNCLASSIFIED

GERMAN, per, Z Physik, Vol LXXIII, 1931, pp 335-347.

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The Question of the Chemical Bond. Part II. For the Understanding of Organic Chemistry, by F. Hund.
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NTC 69-1605-07D

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Electrical Strength and Crystal Structure, by A. V. Hippel,
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pp 145-170. 9226156
AEC-SC-T-64-1620

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Jan 65

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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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Fock, V.
CONFIGURATION SPACE AND SECOND QUANTIZATION, tr. by Charles Ray Smith. 17 Jul 63 [41]p. 9refs. NBS Trans. T8-60.
Order from OTS, SLA, or ETC $4.60 TT-63-23724

Trans. of Zeitschrift für Physik (Germany) 1932, v. 75, p. 622-647. (Abstract available)

DESCRIPTORS: *Quantum statistics, *Field theory, Operators (Mathematics),

The connection between the method of quantized wave functions and the method of coordinate space is examined. The operators of second quantization are represented in a set of configuration spaces for 1, 2, ... particles. The representation which is obtained makes possible a simple derivation of the Hartree equations with exchange. (Author)
(Physics--Theoretical, TT, v. 11, no. 2)

TT-63-23724

I. Fock, V.
II. NBS Trans-T8-60
III. National Bureau of Standards, Washington, D.C.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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Characteristic Infra-Red Frequencies of Alkali Halide Crystals, by R. Bowling Barnes, 9 pp.

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CIA/FDD/Z-118

Scientific - Physics 13,765

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AEC Tr 2715

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May 58

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X-Ray Measurements on Solid Nitrogen and Oxygen, by M. Ruhemann, pp 27

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SLA 57-3479

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BISI 9083

June 71

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The Inverse Stark Effect for the Second Terms of the Principal Series of Rubidium and Cesium, by Y. T. Yao.
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S.L.A. Tr 21

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AEC ORNL-tr-1143

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GERMAN, per, Zeits. Phys., Vol 78, 1932, pp 26-42.
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The Gradient in the Positive Mercury Column,
by A. Elenbaas,
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pp 603-608.

*JPRS/Air Force

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The Absorption Spectra of Oxygen Under High Pressure and the Existence of Tetra-Atomic Oxygen Molecules. 1: Ultraviolet Bands Between 2900 and 2300 A, by W. Finkelnburg.
GERMAN, per, Zeit Physik, Vol 79, 1932, pp 69-88.
NASA TT F-12,108

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May 69 382,656

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A process for separating gaseous mixtures of isotopes and its application to the isotopes of neon, by Hertz, G., Rigby, B., 12 pp.

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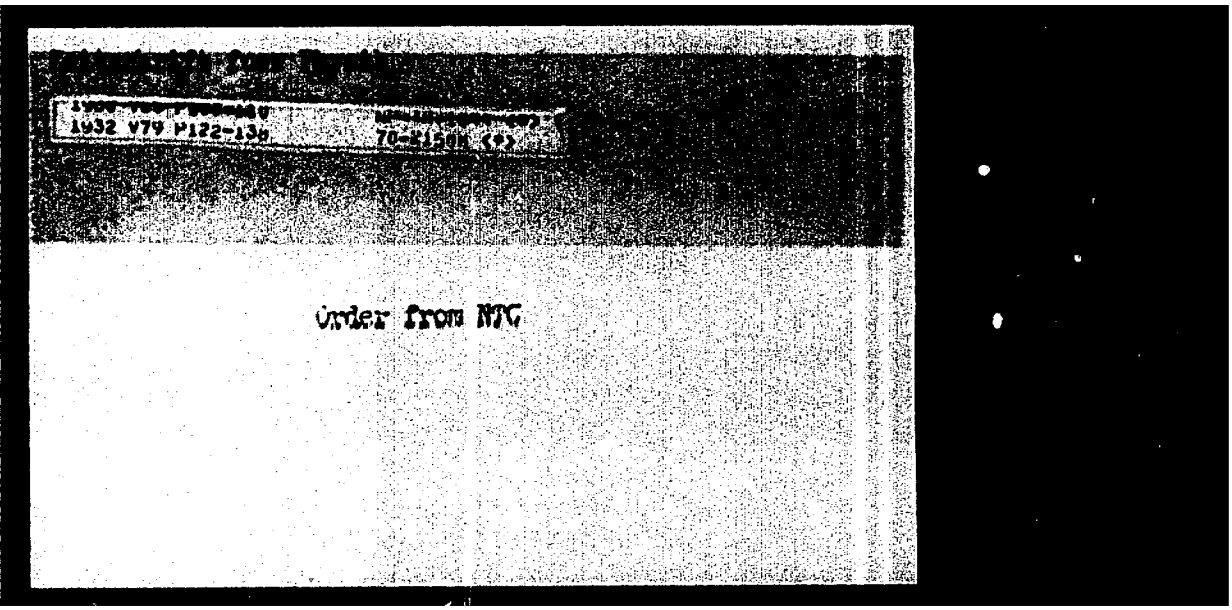


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*NBS TT 70-57424

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EEur - Germany
Sci - Physics, Molecular Physics

CIA/FDD X-5355

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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Rotation Structure of Raman Bands of Polyatomic Molecules, by G. Placzek, E. Teller. GERMANY, per, Zeit Physik, Vol 81, 1933, pp 209-258.
*AEC ORNL Tr-1742

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Experiments for ~~in~~ the Separation of Isotopes According to the Method Given by G. Hertz, by Herbert Harmsen, 33 pp.

GERMAN, per, Z fuer Physik, Vol LXXXII, 1933, pp 589-609. 9081351

AEC Tr-4396

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Sci - Phys
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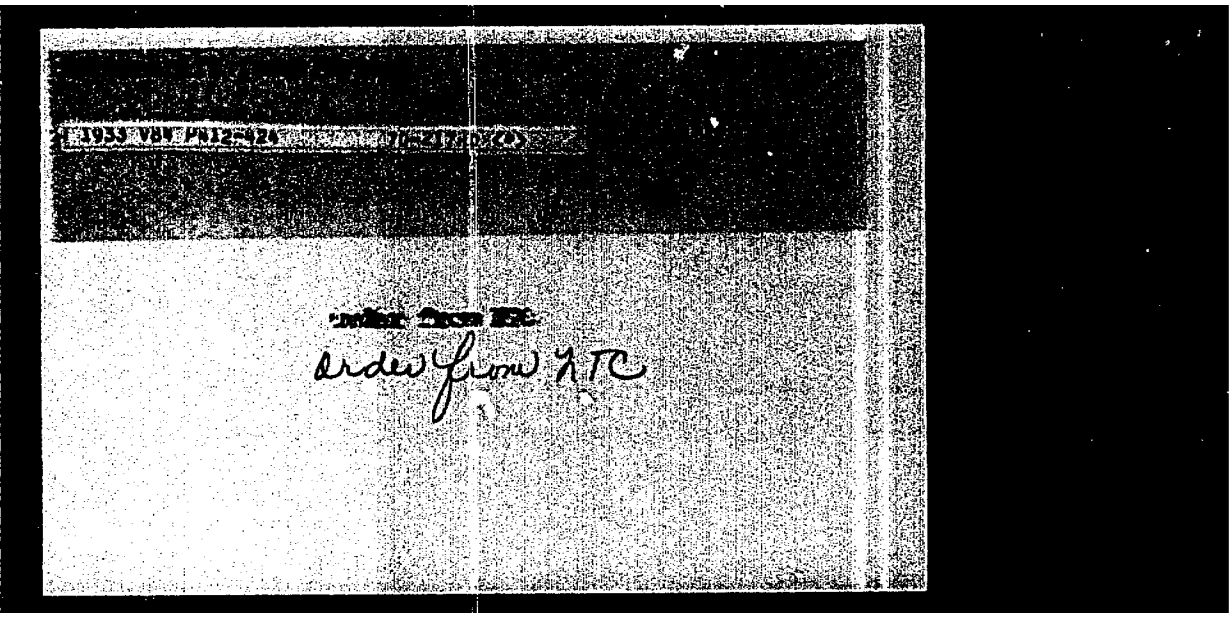


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GERMAN, per, Z. Physik. 85, 1933, pp 29-35.
*NBS TT 70-57355

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AEC Tr-4989

Sci - Phys
Apr 62

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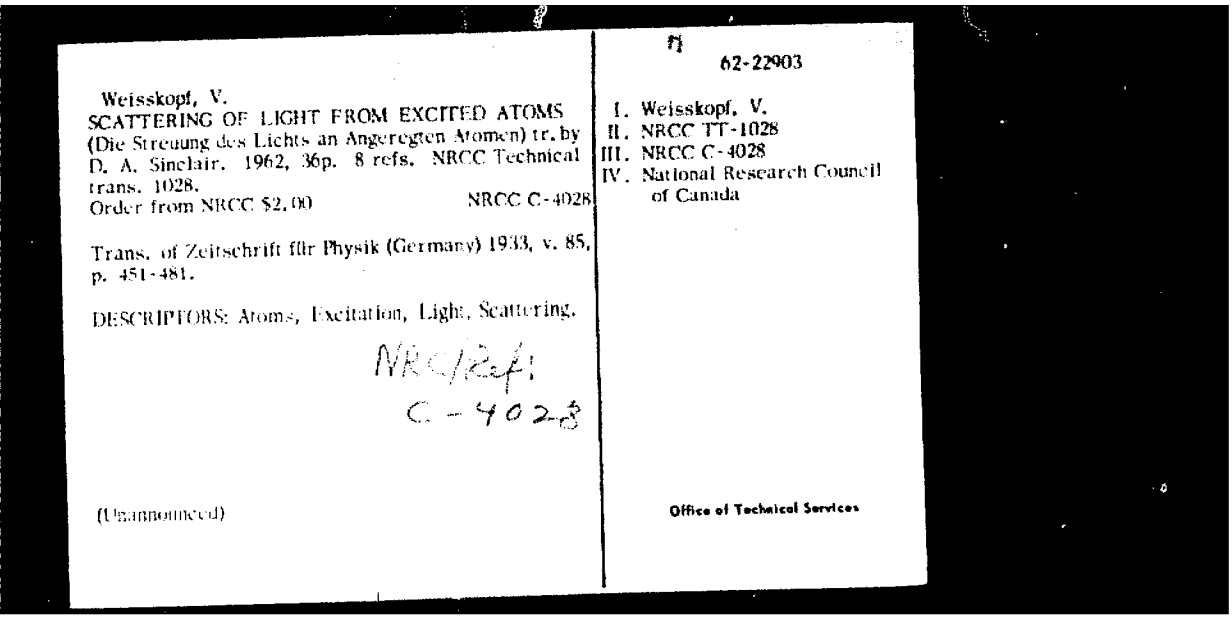

Weisskopf, V.
SCATTERING OF LIGHT FROM EXCITED ATOMS (Die Streuung des Lichts an Angeregten Atomen) tr. by D. A. Sinclair. 1962, 36p. 8 refs. NRCC Technical trans. 1028.
Order from NRCC $2.00 NRCC C-4028

Trans. of Zeitschrift fllr Physik (Germany) 1933, v. 85, p. 451-481.

DESCRIPTORS: Atoms, Excitation, Light, Scattering.

NRC Ref!
C-4028

(Unannounced)

62-22903

I. Weisskopf, V.
II. NRCC TT-1028
III. NRCC C-4028
IV. National Research Council of Canada

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X GERMAN, per, Zietschrift fur Physik, Vol LXXXV.

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Combination Calculation in the Absoppption Spectrum Liquid Oxygen, by J. W. Ellis, H. O. Kneser.

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*AEC Tr-4959

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The Reflection of Mercury Molecular Beams on Cleavage Planes of Crystals, by B. Josephy, 13pp
GERMAN, per, Zeitschrift fur Physik, Vol 80, 1933, No 11/12, pp 755-762
SLA TT-64-16394

Sci - Phy
May 67 326,544

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Attempt at a Theory of the Beta Rays, ~~it~~ by E. Fermi
19 pp.

GERMAN, per, Z fuer Physik, Vol LXXXVIII, 1934,
pp 161-177. 9095531

AEC UCRL Tr-726
CEA A-1102 9067250

Sci - Phys
Mar 62

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Rotational Structure of the Raman Bands of Polyatomic Molecules, by G. Placzek and E. Teller.
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P911339767
AEC ORNL-TR-1741

Sci-Nucl Sci
Nov 67

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Some Magneto-Elastic Z Torsion Experiments, by
M. Kornetzki, R. Becker.

GERMAN, per, Zeitschrift fur Physik, Vol LXXXVIII,
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Navy Tr 3484/APL 717

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Method for Obtaining RaD and Polonium, by T. Bjerge.

GERMAN, per, Zeitschrift fur Physik, Vol LXXXIX, 1934.

AEC Tr 87

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APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

Schaefer, Cl., Matossi, F., and Wirtz, K.
THE INFRARED REFLECTION SPECTRUM OF SILICATES. [1962] 36p. 30 refs.
Order from SLA $3.60 63-10163

Trans. of Zeitschrift für Physik (Germany) 1934, v. 89, p. 210-233.

DESCRIPTORS: *Infrared spectroscopy, *Silicates, Crystal structure, Reflection, Frequency.

The data on reflection measurements in the infrared spectra of silicates are presented. Two regularly occurring reflection bands between 8 and 12 and 17 and 20 can be correlated with the polymerizations of the $SiO_4$ groups. A 'middle band' between 14$\mu$ and 18$\mu$, which appears in particular in silicates can be attributed to other coordination polyhedra ($AlO_6$, $BeO_4$). The short-wave band between 8$\mu$ and 12$\mu$ which is at- (Physics--Spectroscopy, TT, v. 9, no. 12) (over)

63-10163

I. Schaefer, C.
II. Matossi, F.
III. Wirtz, K.

Office of Technical Services

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Ionic- and Electro-Optical Cylindrical Lenses and Prisms, (Part 1), by Richard Herzog, 25 pp.

GERMAN, per, Z Physik, Vol LXXXIX, 1934, pp 447-473.

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AEC Tr-5130

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On the Compton Effect for Bound Electrons, by
W. Franz, 49 pp.
GERMAN, per, Z. Phy, Vol 90, 1934, pp 623-649.
AEC/UCRL/Tr-10311-68

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May 69

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Crystal Plasticity. Part III. The Mechanism of the Slip Process, by E. Orowan, 22 pp.

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Form of Lattice Distortion That May Render
A Crystal Plastic, by M. Polanyi, 5 pp.

Full translation.

GERMAN, per, Z. Physik, Vol LXXXIX, 1934,
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ABC Tr 1741

Scientific - Physics Dec 53 CTS/DEX 8476

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Oscillating Electron Tube With Very Positive Grid and Its Use in Place of Thyratron, by H. Alfven, P. Ohlin Upsala, 13 pp.

GERMAN, per, Z. Physik, Vol LXXXIX, No 11/12, 13 Jul 1934, pp 826-833.

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SLA Tr 57-588

Sci - Electricity

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Aug 57

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330048-3

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Contribution to Quantitative Photographic Photometry, by W. H. E. Bandermann, 21 pp.

GERMAN, per, Z Physik, Vol XC, No 3/4, 10 Aug 1934, pp 266-278.

SLA 57-2312

May 58

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AEC SCL-T-285

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A Method for Measuring Small Deflections With Instruments Using a Light Beam as a Pointer, by M. Czerny, 22 pp.

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SLA TR 2182

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Additional Experiments For the Separation of Isotopes Production of Pure Heavy Hydrogen by Diffusion, by H. Harmsen, G. Hertz, W. Schutze, 15 pp.

GERMAN, per, Z Physik, Vol XC, 1934, pp 703-711.

AEC Tr-4395

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A Contribution to the Electric Adsorption of Gases at Very Low Pressures. Part II, by W. Von Meyeren, 12 pp.
GERMAN, per, Z fuer Physik, Vol XCI, 1934, pp 727-736. 9224497
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